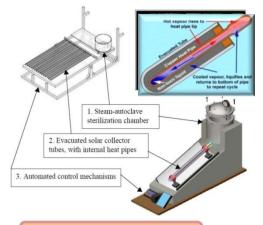
NEWER TECHNOLOGIES IN BIOMEDICAL WASTE MANAGEMENT

SOLAR AUTOCLAVE

Solar energy generates steam through solar collector tube. Steam is collected in a vessel which under pressure is used as Autoclave



Advantages

Easy set up & cost effective. Useful in rural areas. Less maintenance cost.

Disadvantages

Time taking procedure. Not useful in insufficient sunlight areas.

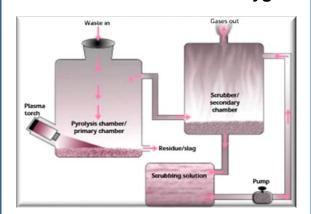
Not useful in rainy season.

PLASMA PYROLYSIS

Based on thermo-chemical properties of plasma.

Generation of high temperature by plasma torches (> 1000°C)

Disintegration of organic waste by intense heat in absence of oxygen



Advantages

Eco-friendly & green technology.
Disposal of all types of waste (Solid municipal, bio-medical & hazardous).
No production of toxic residues.

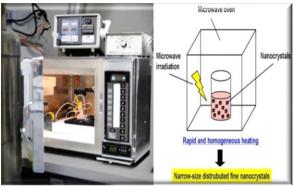
Disadvantages

Technique specific apparatus & set up is required

MICROWAVE

High frequency microwaves (300-300,000 megahertz) causes particles in waste to vibrate.

Vibrations lead to generation of heat which disinfects waste material



Advantages

Targets material from inside out.
Less maintenance cost.

No harmful air emissions & liquid discharges.

Reduced volume of waste residues. Safe for landfill disposal.

Effective on sharps & bulk liquid.

Disadvantages

High investment cost.